Celanese
The chemistry inside innovation™

ZENITE® 7130

Liquid Crystal Polymer

Zenite® 7130 is a 30% glass fiber reinforced liquid crystal polymer for injection molding. It has excellent impact resistance and excellent heat deflection temperature.

Product information

Resin Identification	LCP-GF30		ISO 1043
Part Marking Code	>LCP-GF30<		ISO 11469

Rheological properties

Molding shrinkage, parallel	0	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2.47E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	21800	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	1.5	%	ISO 527-1/-2
Flexural modulus	2.39E6	psi	ISO 178
Flexural strength	30500	psi	ISO 178
Charpy impact strength, 23°C	14.3	ftlb/in²	ISO 179/1eU
Charpy impact strength, -30°C	10.5	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	9.51	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	9.51	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23°C	8.56	ftlb/in²	ISO 180/1A
Izod impact strength, 23°C	14.3	ftlb/in²	ISO 180/1U

Thermal properties

Melting temperature, 10°C/min	666	°F	ISO 11357-1/-3
Glass transition temperature, 10°C/min	248	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	590	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.02	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.344	E-4/°F	ISO 11359-1/-2

Flammability

Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.0157	in	IEC 60695-11-10
UL recognition	yes		UL 94
Oxygen index	45	%	ISO 4589-1/-2

Electrical properties

Relative permittivity, 100Hz	4.1		IEC 62631-2-1
Relative permittivity, 1MHz	3.7		IEC 62631-2-1
Dissipation factor, 100Hz	140	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	300	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm.m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	1140	kV/in	IEC 60243-1
Comparative tracking index	175		IEC 60112

Revised: 2025-03-20 Source: Celanese Materials Database

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Physical/Other properties

Density	0.0585	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	302	°F
Drying Time, Dehumidified Dryer	4 - 6	h
Processing Moisture Content	≤0.01	%
Melt Temperature Optimum	689	°F
Min. melt temperature	680	°F
Max. melt temperature	698	°F
Max. screw tangential speed	0.2 - 0.3	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	176	°F
Max. mold temperature	248	°F
Back pressure	435	psi

Characteristics

Processing	Injection Molding
Special characteristics	Flame retardant, Heat stabilized or stable to heat, High Flow, Lead-free soldering resistant

Additional information

Injection molding

Preprocessing

Drying Temperature = 150 °C
Drying Time, Dehumidified Dryer = 3h
Processing Moisture Content = <0.01 %

Processing

Melt Temperature Optimum = 365 °C
Melt Temperature Range = 360-370 °C
Mold Temperature Optimum = 80 °C
Mold Temperature Range = 40-150 °C

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